

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-088620

(43)Date of publication of application : 02.04.1996

H04L 1/18

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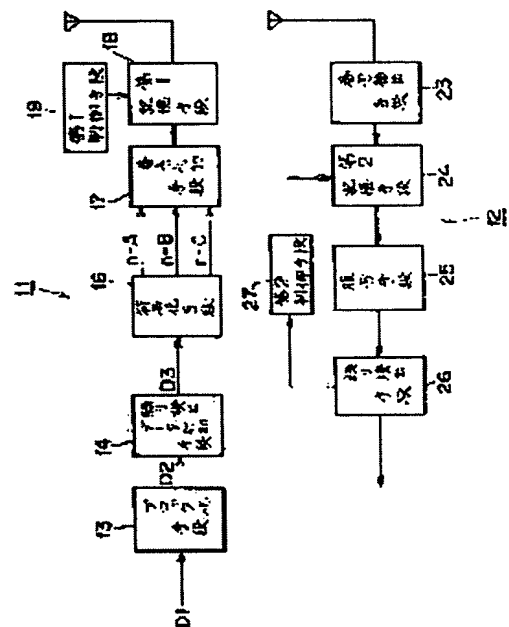
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(54) DATA COMMUNICATION SYSTEM BY HYBRID AUTOMATIC RE-TRANSMISSION REQUEST SYSTEM

(57)Abstract:

**PURPOSE:** To obtain a data communication system adopting the hybrid automatic re-transmission request system in which error correction of transmission information is made efficiently proper depending on the deteriorated state of characteristics of a communication channel.

**CONSTITUTION:** When an error is in existence in received data, a NACK signal is sent to a 1st control means 19 under the control of a 2nd control means 27 thereby allowing the 1st control means 19 to send other data subjected to frame processing than data of a block number in error. Since the other data subjected to frame processing than the transmitted data are decoded together with the data in error, the data are processed as a code whose coding rate changes in response to the number of times of re-transmission. As a result, the correction capability gets higher every time the number of times of re-transmission is increased as 2nd transmission than 1st transmission, and 3rd transmission than the 2nd transmission so as to suppress rapid increase in the number of times of re-transmission due to the deterioration in the characteristic of the communication channel.



## LEGAL STATUS

[Date of request for examination] 20.08.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3388035

[Date of registration] 10.01.2003

[Number of appeal against examiner's decision of rejection]

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decision of rejection]

[Date of extinction of right]

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